



Product Data Sheet



Dakota Gear MP 80W-90 GL-5

Extra High Performance Commercial Gear Lubricants

PRODUCT DESCRIPTION

Dakota Gear MP 80W-90 GL-5 is an extra high performance commercial gear lubricant formulated from select base oils and an advanced additive system. This lubricant is engineered for performance in heavy-duty commercial transmissions, axles, and final drives where extreme pressures and shock loading are expected. It provides excellent chemical and thermal stability at elevated bulk oil temperatures, good performance at low temperatures, and has demonstrated good rust protection resulting from water contamination and wet conditions. It is recommended for applications where API GL-5 and MT-1 service is required.

FEATURES AND BENEFITS

Today's heavy equipment applications place higher performance demands on drive train lubricants. Higher speeds, higher torque, and heavier loads require improved formulations to maximize equipment life and optimize operating costs. Longer service intervals place additional demands on the gear lubricant. Dakota Gear MP 80W-90 GL-5 gear lubricant is engineered to meet these challenges. The key benefits include:

Features	Advantages and Potential Benefits
Excellent thermal stability and resistance to high temperature oxidation	Extended gear and bearing life due to minimal deposits and longer seal life
Good protection against low speed/high torque wear and against high speed scoring	Increased load carrying capability and reduced operating costs
Excellent rust, staining, and corrosion protection	Reduced wear and longer component life
Effective low temperature lubrication	Reduced wear and ease of start-up
Wide multi-purpose capability	Reduced number of gear lubricants to simplify inventory and minimize misapplication
Good resistance to foaming	Maintains film strength for effective lubrication
Compatible with typical automotive seals and gaskets	Minimum leakage and reduced contamination

APPLICATIONS

Recommended for use in:

- Heavy-duty manual transmissions, axles, and final drives requiring API GL-5 and MT-1 level performance
- On-highway light and heavy-duty trucks, busses, vans, and cars
- Off-highway industries including: construction, mining, quarrying, and agriculture
- Other heavy-duty industrial and automotive applications involving hypoid and other gears operating under conditions where high speed/shock load, high speed/low torque, and/or low speed/high torque conditions prevail
- Initial fill, top-off, and refill of enclosed commercial gearing in manual or semiautomatic transmissions where gear lubricants are recommended including drive axles and final drives
- Not recommended for applications requiring API GL-4 Level performance

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- Not intended for transmissions for which engine oil or automatic transmission fluids are recommended

SPECIFICATIONS AND APPROVALS

Dakota Gear MP 80W-90 GL-5 meets or exceeds the requirements of the following industry specifications:	80W-90
API GL-5	X
API MT-1	X
SAE J2360	X
SCANIA STO-1:0	X

Dakota Gear MP 80W-90 GL-5 has the following builder approvals:	80W-90
Mack GO-J	X

Dakota Gear MP 80W-90 GL-5 is of the following quality level, but not approved:	80W-90
MIL-PRF-2105E	X

TYPICAL PROPERTIES

Dakota Gear MP 80W-90 GL-5	
SAE Grade	80W-90
Viscosity, ASTM D 445	
cSt @ 40°C	139
cSt @ 100°C	14.5
Viscosity Index, ASTM D 2270	103
Pour Point, °C, ASTM D 97	-27
Flash Point, °C, ASTM D 92	210
Density @ 15°C kg/l, ASTM D 4052	0.895

HEALTH AND SAFETY INFORMATION

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet.

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